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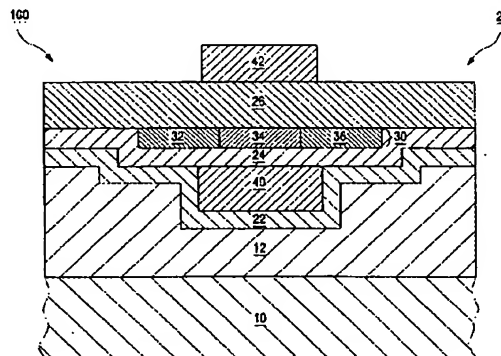
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[Continued on next page]

(54) Title: SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING SAME



(57) Abstract: To refine a semiconductor device (100), in particular a Silicon-On-Insulator device, comprising: at least one isolating layer (10) made of a dielectric material; at least one silicon substrate (20) arranged on said isolating layer (10); at least one component (30) integrated in the silicon substrate (20), which component has at least one slightly doped zone (34); as well as at least a first, in particular planar, metallization region (40) arranged between the isolating layer (10) and the component (30), in particular between the isolating layer (10) and the slightly doped zone (34) of the component (30), as well as a method of manufacturing at least one semiconductor device (100) in such a manner that trouble-free operation also of slightly doped components (30), such as pnp transistors, is guaranteed in a SOI process transferred onto the insulator, it is proposed that at least a second, in particular planar, metallization region (42) is arranged on the side of the silicon substrate (20) facing away from the isolating layer (10), in the area of the component (30), particularly in the area of the slightly doped zone (34) of the component (30).

WO 03/103041 A2



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/JP 03/02084

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6331473	B1	18-12-2001	NONE	
JP 07038005	A	07-02-1995	NONE	
JP 2001230423	A	24-08-2001	CN 1308378 A TW 473914 B	15-08-2001 21-01-2002
GB 2110470	A	15-06-1983	NONE	
JP 58012353 3	A		NONE	

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/02084

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L21/84 H01L27/12 H01L21/762 H01L29/735

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 331 473 B1 (HIRABAYASHI YUKIYA) 18 December 2001 (2001-12-18) abstract; claims; figure 13 ---	1,2,4-10
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 05, 30 June 1995 (1995-06-30) -& JP 07 038005 A (SONY CORP), 7 February 1995 (1995-02-07) abstract; figures ---	1-5,7,8
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 25, 12 April 2001 (2001-04-12) -& JP 2001 230423 A (INTERNATL BUSINESS MACH CORP), 24 August 2001 (2001-08-24) abstract; figures ---	1,2,4,5, 7,8
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Z document member of the same patent family

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17/12/2003

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/02084

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 110 470 A (HUGHES AIRCRAFT CO) 15 June 1983 (1983-06-15) abstract; claims; figure 1	1,2,4-10
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 084 (E-169), 7 April 1983 (1983-04-07) -& JP 58 012353 A (MATSUSHITA DENKI SANGYO KK), 24 January 1983 (1983-01-24) abstract; figures	1,2,4-10

INTERNATIONAL SEARCH REPORT
 Information on patent family members

International Application No
PCT/JP 03/02084

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6331473	B1	18-12-2001	NONE	
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JP 2001230423	A	24-08-2001	CN 1308378 A TW 473914 B	15-08-2001 21-01-2002
GB 2110470	A	15-06-1983	NONE	
JP 58012353 3	A		NONE	

国際調査報告

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A. 発明の属する分野の分類 (国際特許分類 (IPC))
Int. Cl⁷ H04B7/26

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))
Int. Cl⁷ H04B7/24...7/26
H04Q7/00-7/38

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1922-1996年
日本国公開実用新案公報 1971-2003年
日本国登録実用新案公報 1994-2003年
日本国実用新案登録公報 1996-2003年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
EX EA	JP 2003-264873 A (松下電器産業株式会社) 2003.09.19 第6欄第9行-第12欄第43行 (ファミリーなし)	1-4, 8 5-7

☒ C欄の続きにも文献が列挙されている。

☐ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

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